

ABSTRACT OF THE DISCLOSURE

An infrared emitter element includes: at least one emitter tube made of silica glass, which has two ends; at least one electrical conductor arranged in the emitter tube as a radiation source; a cooling tube made of silica glass, which surrounds the at least one emitter tube spaced therefrom and 5 which is connected to the at least one emitter tube directly at its ends, such that in the region of the electrical conductor at least one flow-supporting channel is formed between the at least one emitter tube and the cooling tube; and a metallic reflector. The cooling tube is completely covered with the reflector on its side facing away from the emitter tube. The infrared emitter element may be used as a flow-through heater, such as a heat exchanger, especially for high-purity fluids.

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